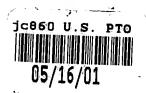
PTO/SB/05 (03-01)
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Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to r

UTILITY
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(Only for new nonprovisional applications under 37 CFR § 1.53(b))

espond to a collection of information unless it displays a valid OMB control number.—				
Attorney Docket No.		1744.1260001		
First Inventor		David F. Sorrells	PTO	
Title		Apparatus, System, and Method for Down-Converting and		

	Express Mail Label No.			
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Commissioner for Patents Box Patent Application Washington, DC 20231			
 Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. 	 CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) 			
3. Specification [Total Pages = 108] (preferred arrangement set forth below) - Descriptive title of the Invention - Cross Reference to Related Applications - Statement Regarding Fed sponsored R & D - Reference to sequence listing, a table, or a computer program listing appendix - Background of the Invention - Brief Summary of the Invention - Brief Description of the Drawings (if filed) - Detailed Description - Claim(s)	a.			
- Abstract of the Disclosure 4. Drawing(s) (35 U.S.C. 113) [Total Pages = 97]	10. 37 CFR 3.73(b) Statement Power of Attorney (when there is an assignee)			
5. Oath or Declaration	11.			
a. Newly executed (original or copy)	Statement (IDS)/PTO-1449 — Citations 13. Preliminary Amendment			
b. Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed)	14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)			
 i. DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b). Application Data Sheet. See 37 CFR 1.76. 	 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. Other: Authorization under 37 C.F.R. § 1.136(a)(3)(in duplicate) 			
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-Part (CIP) of prior application No: 09/550,644, filed April 14, 2000 Prior application information: Examiner: Jean Gelin Group/Art Unit: 2681 For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.				
19. CORRESPONDENCE ADDRESS				
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NAME STERNE, KESSLER, GOLDSTEIN & FOX P. L. D. I. I.				
Attorneys at Law ADDRESS				
CITY STATE	ZIP CODE			
COUNTRY TELEPHONE FAX				
NAME (Print/Type) Michael O. Let Registration No. (Attorney/Agent) 35,239 SIGNATURE Date 5 6 6				







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*LIMITED TO MATTERS AND PROCEEDINGS BEFORE FEDERAL COURTS & AGENCIES REGISTERED PATENT AGENT ***SENIOR COUNSEL

WRITER'S DIRECT NUMBER: (202) 371-2674 **INTERNET ADDRESS:** mlee@skgf.com

May 16, 2001

Commissioner for Patents Washington, D.C. 20231

Box Patent Application

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. (to be assigned); Filed: May 16, 2001

Apparatus, System, and Method for Down-Converting

and Up-Converting Electromagnetic Signals

Inventors: Sorrells et al. Our Ref: 1744.1260001

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- USPTO Utility Patent Application Transmittal Form PTO/SB/05; 1.
- 2. U.S. Utility Patent Application entitled:

Apparatus, System, and Method for Down-Converting and Up-Converting Electromagnetic Signals

and naming as inventors:

David F. Sorrells Michael J. Bultman Robert W. Cook Richard C. Looke Charley D. Moses, Jr. **Gregory S. Rawlins** Michael W. Rawlins

Commissioner for Patents May 16, 2001 Page 2

the application comprising:

- a. specification containing:
 - i. 89 pages of description prior to the claims;
 - ii. 18 pages of claims (90 claims, 10 independent);
 - iii. a one (1) page abstract;
- b. 97 sheets of drawings: (Figures 1A-1D, 2, 3A-3G, 4-5, 6A-6B, 7A-7B, 8-12, 13A-13I, 14-15, 16A-16O, 17, 18A-18E, 19, 20A-20F, 21-23, 24A-24K, 25A-25F, 26A-26F, 27A-27E, 28-30, 31A-31C, 32-44, 45A-45E, and 46-62); and
- c. an Application Data Sheet (37 C.F.R. § 1.76).
- 3. 37 C.F.R. § 1.136(a)(3) Authorization to Treat a Reply As Incorporating An Extension of Time (*in duplicate*); and
- 4. Two (2) return postcards.

Correspondence should be sent to Customer Number 26111.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

This patent application is being submitted under 37 C.F.R. § 1.53(b) without Declaration and without filing fee.

Respectfully submitted,

STERMENKESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael Q. Lee

Attorney for Applicants Registration No. 35,239

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

09/85851 09/85851 05/16/01

In re application of:

Sorrells et al.

Appl. No. (to be assigned)

Filed: May 16, 2001

For: Apparatus, System, and Method

for Down-Converting and Up-Converting Electromagnetic

Signals

Confirmation No. (to be assigned)

Art Unit: (to be assigned)

Examiner: (to be assigned)

Atty. Docket: 1744.1260001

Authorization To Treat A Reply As Incorporating An Extension Of Time Under 37 C.F.R. § 1.136(a)(3)

Commissioner for Patents Washington, D.C. 20231

Sir:

The U.S. Patent and Trademark Office is hereby authorized to treat any concurrent or future reply that requires a petition for an extension of time under this paragraph for its timely submission, as incorporating a petition for extension of time for the appropriate length of time. The U.S. Patent and Trademark Office is hereby authorized to charge all required extension of time fees to our Deposit Account No. 19-0036, if such fees are not otherwise provided for in such reply. A duplicate copy of this authorization is enclosed.

Respectfully submitted,

STERNE, MESSLER, GOLDSTEIN & FOX P.L.L.C.

j 36, 91

Michael O. Lee

Attorney for Applicants Registration No. 35,239

Date

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